SCHEDULE OF SERVICES

Memphis Travel demand Model
Memphis-Shelby County Office of Planning and Development

										nelby County Offic Octobe	er 27, 2004	<u> </u>												
	Task Description	PROJECT MONTHLY TIMELINE BY TASK 0																						
Task Number	, aux 2005p	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14 15	16	17	18	19	20 21	22	23	24
		JUL	AUG	2004 SED	ОСТ	I NOV	DEC	IAN	EER	MAR	ADD	MAY	2005	1111	ALIC	SED OCT	NOV	DEC	IAN	EER	2006 MAR APR	JUN	1 1111	AUG
Task 1.0	Project Start-Up	JUL	AUG	SEF	001	NOV	DEC	JAN	FEB	WAR	AFK	WAT	JUN	JUL	AUG	SEP OCT	NOV	DEC	JAN	FEB	MAR AFR	JUN	JUL	AUG
	Task 1.1 Develop Project Work Plan and Schedule																							
TEAM	Task 1.2 Prepare Project Data Management Guidelines and Quality Control Plan																							
	Task 1.3 Prepare and Conduct Project Meeting #1 (Kick-Off Meeting)																							
Task 2.0	Network Development and Refinement of TAZ Structure																							
	Task 2.1 Develop Base Roadway and Transit Network Task 2.2 Development of TAZ Structure						77		<u> </u>															
¥	Task 2.3 Supplemental Network Coding					1																		
	Task 2.4 Prepare and Conduct Project Meeting #2 Task 2.5 Prepare and Submit Technical Memorandum #1				-																			
	Task 2.6 Quality Control (Check and Respond)																							
Task 3.0	Base Year Demographics and Future Year Forecast																							
	Task 3.1 Land Use, Demographic, and Employment Data Collection Task 3.2 Year 2000 Baseline Demographic and Employment Data																							
<u>e</u>	Development																							
HNTB	Task 3.3 Develop Auto Ownership (Vehicle Availability) Model Task 3.5 Demographic and Employment Data Forecast							~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	3															
	Task 3.6 Review of Forecasts and Disaggregation by TAZ																							
Tack 4.0	Task 3.7 Prepare and Submit Technical Memorandum #2 Development of Trip Generation Model																							
1 ask 4.0	Task 4.1 Define Regional Trip Purposes																							
	Task 4.2 Trip Production Rate Development	_																						
	Task 4.3 Trip Attraction Rate Development Task 4.4 Special Generators			+						-							_	+	-			+	-	1
<u>~</u>	Task 4.5 External Trips				<u> </u>																			
	Task 4.6 Prepare Trip Productions and Attractions	-							-															
	Task 4.7 Automate the Trip Generation/Trip Attraction Process Task 4.8 Prepare and Conduct Project Meeting #3			+												+		+	1		+ +	+	1	1
	Task 4.9 Prepare and Submit Technical Memorandum #3																							
T1 5.0	Task 4.10 Quality Control (Check and Respond)																							
Task 5.0	Trip Distribution Task 5.1 Intrazonal Travel Time																							
	Task 5.2 Terminal Times																							
	Task 5.3 Calculation of Intrazonal Trips					-																		
	Task 5.4 Intermediate Trip Distribution Task 5.5 Implement Destination Choice Trip Distribution Model											_												
	Task 5.6 Prepare and Conduct Project Meeting #4											·												
	Task 5.7 Prepare and Submit Technical Memorandum #4 Task 5.8 Quality Control (Check and Respond)																							
Task 6.0	Time-of-Day and Directional Modeling																							
	Task 6.1 Develop Time of Day Model								7	7														
Task 7.0	Mode Choice Task 7.1 Mode Choice Model Estimation																							
	Task 7.2 Integration with TransCAD Model (trip tables, network)											_												
	Task 7.3 Reprocess Mode Choice Based on Feedback Loop(s) Task 7.4 Prepare and Submit Technical Memorandum # 6												$\overline{}$											
	Task 7.5 Prepare and Conduct Project Meeting #5									 			7											
T1-0-0	Task 7.6 Quality Control (Check and Respond)																							
Task 8.0	Freight Model Development Task 8.1 Develop Freight Model																							
	Task 8.2 Quality Control (Check and Respond)																							
	Task 8.3 Prepare and Submit Technical Memorandum # 7 Traffic Assignment																							
	Task 9.1 Develop Link Capacities																							
	Task 9.2 Conduct Trip Assignment				1																			
KHA	Task 9.3 Implement Feedback Loop Methodology and Number of Iterations												- √	<u></u>										
×	Task 9.4 Conduct Trip Assignment based on Feedback Loop(s)																							
	Task 9.5 Prepare and Submit Technical Memorandum # 8 Task 9.6 Quality Control (Check and Respond)				1					+														
Task 10.0	Model Assignment Calibration and Validation																							
	Task 10.1 Highway Volume Validation Task 10.2 Transit Validation				1	+	-			 				•				 					1	
	Task 10.3 Calibration Report Analysis																							
	Task 10.4 Adjustment of Global Parameters Task 10.5 Sub-Area Model Adjustments			<u> </u>														 				+ -		ļ
×	Task 10.5 Sub-Area Model Adjustments Task 10.6 Individual Link Adjustments			<u> </u>															<u> </u>			<u> </u>	<u>L</u>	<u> </u>
	Task 10.7 Project Meeting																							
Task 11.0	Task 10.8 Technical Memorandum Meeting #6 Long-Range Travel Demand Model Forecasting Assignment/Analysi	S																						
	Task 11.1 Identification of Existing Network Plus Committed Projects																							
	Task 11.2 Forecast Year EPC Capacity and Level of Service Analysis Task 11.3 Recommended Deficiency Improvements			+														-				+	-	
X A A	Task 11.4 Identification of Alternative Transportation Plan Concepts																							
	Task 11.6 Development of Capital Improvement Cost Estimates Task 11.7 Prepare and Submit Technical Memorandum # 10			1																		+	<u> </u>	1
	Task 11.7 Prepare and Submit Technical Memorandum # 10 Task 11.8 Prepare and Conduct Project Meeting #7			<u> </u>												<u> </u>		<u> </u>				<u> </u>	<u>L</u>	<u> </u>
	Task 11.9 Quality Control (Check and Respond)	_																						
Task 12.0	Task 11.10 Air Quality Analysis (Interim and Horizon Year) Automation of Model Output Preparation																							
⋖	Task 12.1 Automation of Model Output																							
<u> </u>	Task 12.2 Prepare and Submit Technical Memorandum # 11 Task 12.3 Quality Control (Check and Respond)			+	1			•													 	+	1	1
	Staff Training/Model Review/Technical Assistance/CQI																							
TEAM	Task 13.1 Staff Training																							
Task 14.0	Model Documentation Task 14.1 Develop of Model Methodology Report																							
TEAM	Task 14.2 Develop User's Guide																							
	Task 14.3 Quality Control (Check and Respond)																							

Schedule of Services
Memphis Travel Demand Model
Memphis-Shelby County Office of Planning and Development
October 27, 2004

Schedule Le	egend						
- Task Milestone							
- Project Milestone							
- Peer Review	w Meeting						
	- Task Duration						
	- Sub-Task Duration						
	- Project Meeting						
	- Technical Memorandum Deliverable						